

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Human IL-6 Antibody

Catalog No: 130-10091	Isotype: Mouse IgG	Species: Human	Accession No: AAH15511
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Description

Interleukin 6 (IL-6) is a pleiotropic cytokine that regulates cell growth and differentiation of various tissues, and plays an important role in the immune response and acute phase reactions. IL-6 acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response, e.g., during infection and after trauma, especially burns or other tissue damage leading to inflammation. IL-6's role as an anti-inflammatory cytokine is mediated through its inhibitory effects on TNF-alpha and IL-1, and activation of IL-1ra and IL-10.

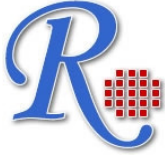
Applications

Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended work dilution
ELISA	*			1:40000
Western Blotting	*			1:1000
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

The Immunogen was a recombinant protein of human IL-6 (rIL-6) expressed in *E. coli*. This antibody was produced from a hybrid myeloma/spleen cells immunized with rIL-6 protein. The IgG fraction was purified from cell culture supernatant by Protein A affinity chromatography.

Specificity

This antibody was selected for its ability to bind to human IL-6. This antibody reacts with Mouse, Rat, Human and Porcine IL-6.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1x PBS to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Reference

Ferguson-Smith AC, et al. Regional localization of the interferon-beta 2/B-cell stimulatory factor 2/hepatocyte stimulating factor gene to human chromosome 7p15-p21. *Genomics*. 1988;2(3): 203–208.

Van der Poll T, et al. Interleukin-6 gene-deficient mice show impaired defense against pneumococcal pneumonia. *J Infect Dis*. 1997;176(2): 439–444.

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